

Attorney Docket No.: 02307Z-132800US Client Reference No.: 2003-145-1

### **DECLARATION**

As a below named inventor, I declare that:

inventor (if or matter which SILICON CA	nly one n is claime RBIDE,	ame is listed belo ed and for which AND BORON N	w) or an original, first and a patent is sought on the in	joint inventor (if plural invention entitled: NANO which is attached	believe I am the original, first and sole inventors are named below) of the subject COMPOSITES OF SILICON NITRIDE, hereto or X was filed on February 6.
amendment re Code of Fede foreign applic or inventor's	eferred to eral Regu eation(s) : certificate	above. I acknow lations, Section 1 for patent or inver e having a filing d	ledge the duty to disclose i .56. I claim foreign priorit	nformation which is mate by benefits under Title 35 w and have also identified	cluding the claims, as amended by any rial to patentability as defined in Title 37, United States Code, Section 119 of any d below any foreign application for patent s claimed.
Prior Foreign	n Applic	ation(s)			Priority Claimed Under
		Country	Application No.	Date of Filing	35 USC 119
I hereby clain	a the ben		, United States Code § 1196	(e) of any United States p	rovisional application(s) listed below:
the first parag	r of each graph of I e of Fede	of the claims of th litle 35, United St	is application is not disclos ates Code, Section 112, I a ection 1.56 which occurred	ed in the prior United Sta cknowledge the duty to d	lication(s) listed below and, insofar as the ates application in the manner provided by lisclose material information as defined in of the prior application and the national or
	Ару	olication No.	Date of Filing	·S	tatus
Full Name	e of	Last Name:	First Na	ine:	Middle Name or initial:

Full Name of Inventor 1:	Last Name: WAN	First Name: JULIN	Middle Name or Initial:	
Residence & Citizenship:	City: Schenectady	State/Foreign Country: New York	Country of Citizen Peoples Repu	
Post Office Address:	Post Office Address: 2150 Rosa Road, Apartment B1A	City: Schenectady	State/Country: New York	Postal Code: 12309
Full Name of Inventor 2:	Last Name: MUKHERJEE	First Name: AMIYA	Middle Name or Initial:	
Residence & Citizenship:	City: Davis	State/Foreign Country: California	Country of Citizer United States	ship:
Post Office Address:	Past Office Address: 1123 Purdue Drive	City: Davis	State/Country: California	Postal Code: 95616

Attorney Docket No.: 02307Z-132800US

Client Reference No.: 2003-145-1

Full Name of Inventor 3:	Last Name: GASCH	First Name: MATTHEW	Middle Name or Initial: J.		
Residence & Citizenship:	City: Sacramento	State/Foreign Country: California	Country of Citizenship: United States		
Post Office Address:	Post Office Address: 5565 Swadly Way	City: Sacramento	State/Country: Postal Code: California 95835		

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1	Signature of Inventor 2	Signature of Inventor 3
	AR. Mulya	
Date 7/15/0 4	Amiya K. Mukherjee Date 5/19/04	Matthew J. Gasch Date

60174R55 v4



Attorney Docket No.: 02307Z-132800US Client Reference No.: 2003-145-1

#### **DECLARATION**

As a below named inventor, I declare that:

inventor (if only matter which is SILICON CARI	one name is listed belt claimed and for which BIDE, AND BORON I	l citizenship are as stated be low) or an original, first and in a patent is sought on the in NITRIDE the specification of the was amended on	joint inventor (if plural vention entitled: NANC which is attached	inventors are named below) COMPOSITES OF SILICG hereto orX_ was filed or	of the subject ON NITRIDE,
amendment refe Code of Federal foreign applicati	ared to above. I acknow I Regulations, Section ion(s) for patent or invertificate having a filing	contents of the above identified the duty to disclose in 1.56. I claim foreign priority entor's certificate listed below date before that of the applicate in the second s	nformation which is mat y benefits under Title 3. v and have also identifie	erial to patentability as defir 5, United States Code, Secti d below any foreign applica	ned in Title 37, on 119 of any
	Country	Application No.	Date of Filing	Priority Claimed Under 35 USC 119	]
I hereby claim t	he benefit under Title 3	35, United States Code § 119(	e) of any United States 1	provisional application(s) lis	ted below:
	A	pplication No.	Filing I	Date	

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

	T -	
Application No.	Date of Filing	Status

Full Name of Inventor 1:	Last Nume: WAN	First Name: JULIN	Middle Name or Ir	Middle Name or Initial:	
Residence & Citizenship:	City: Schenectady	State/Foreign Country: New York	Country of Ciuzenship: Peoples Republic of Chin		
Post Office Address:	Post Office Address: 2150 Rosa Road, Apartment B1A	City: Schenectady	State/Country: New York	Postal Code: 12309	
Full Name of Inventor 2:	Last Name: MUKHERJEE	First Name: AMIYA	Middle Name or Ir	itial:	
Residence & Citizenship:	City: Davis	State/Foreign Country: California	Country of Citizen United States	ship:	
Post Office Address:	Post Office Address: 1123 Purdue Drive	City: Davis	State/Country: California	Postal Code: 95616	

Attorney Docket No.: 02307Z-132800US Client Reference No.: 2003-145-1

Full Name of Inventor 3:	Last Name: GASCH	First Name: MATTHEW	Middle Name or Initial: J. Country of Citizenship: United States		
Residence & Citizenship:	City: Sacramento	State/Foreign Country: California			
Post Office Address:	Post Office Address: 5565 Swadly Way	City: Sacramento	State/Country: California	Postal Code: 95835	

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1	Signature of Inventor 2	Signature of Inventor 3
<u> </u>	An. mulya	Mathy Janah
Julin Wan	Amiya K. Mukherjee	Matthew J. Gasch
Date	Date 5/19/04	Date 5-25-04

60174855 v1

PTO/SB/81 (09-03)

POWER OF ATTORNEY
and
<b>CORRESPONDENCE ADDRESS</b>
INDICATION FORM

Application Number	10/773,758
Filing Date.	2/6/04
First Named Inventor	Julin Wan et al.
Title	NANOCOMPOSITES OF SILICON NITRIDE, SILICON CARBIDE, AND BORON NITRIDE
Art Unit	1755
Examiner Name	
Attorney Docket Number	02307Z-132800US UC Case No. 2003-145-1

I hereby ap	point:				<del> </del>		<del></del>	
🛛 Practiti	ioners asso	ciated with the Custo	mer Number	20350	)			
OR	•			L	•		J	
Practiti	ioner(s) nar	ned below:			<u>.</u>			
		Name			Registration	ı Number		
Ī		•			{ !			
					· · · · · ·			
			•					
					1			
as my/our a Patent and	nttorney(s) o Trademark	or agent(s) to prosecu Office connected the	ite the application rewith.	identified abo	ove, and to t	ansact all	business l	n the United States
Please reco	ognize or ch	ange the correspond	ence address for	the above ide	entified application	ation to:		
⊠ The add	ress assoc	iated with the above-	mentioned Custor	ner Number.	i i			
OF	₹				<u> </u>	· ·		
The add	iress assoc	iated with Customer	Number:					
Ol	R			· · · · · · · · · · · · · · · · · · ·		<u> </u>		
Firm or Individu	ial Name							
Address								
Address					· · ·			
City				State		ZiP		
Country					•			
Telephone			,	Fax	1			
I am the:					:			•
☐ Appli	icant/Invent	or.			•			
Assig States	nee of reco ment under	rd of the entire intere 37 CFR 3.73(b) is er	st. See 37 CFR 3 Iclosed. (Form P1	3.71. O/SB/96).	(			
		SIGN	ATURE of Applic	cant or Assig	nee of Reco	ord		
Name	Linda S	Stevenson			1			
Signature	Bu	rda She	vensor		•			
Date	J'G	uly 30, 20	004		elephone	(510		-6000
NOTE: Signal forms If more	tures of all <b>f</b> it than one sid	e inventors or assignees nature is required, see b	of record of the ent elow.	ire interest or th	reir representa	tive(s) are r	equired. Su	omit multiple
Total c		forms are submit						

60260313 v1



PTO/SB/86 (08-03)

Attorney Docket No. 02307Z-132800US UC Case No. 2003-145-1

STATEMENT UNDER 37 CFR 3.73(b)			
Applicant/Patent Owner: Julin Wan, Amiya K. Mukherjee, and M	Matthew J. Gasch		
Application No./Patent No.: 10/773,758/ Filed/Iss	ue Date: February 6, 2004 /		
Entitled: NANOCOMPOSITES OF SILICON NITRIDE, SILICO			
The Regents of the University of California , a corporation			
(Name of Assignee) (Type of Assignee, a.	g., corporation, partnership, university, government agency, etc.)		
states that it is:			
1.   the assignee of the entire right, title, and interest, or			
2. an assignee of less than the entire right, title and intere The extent (by, percentage) of its ownership interest is	st%		
in the patent application/patent identified above by virtue of either:	;		
<ul> <li>An assignment from the inventor(s) of the patent application/precorded in the United States Patent and Trademark Office at thereof is attached.</li> </ul>	patent identified above. The assignment was it Reel, Frame, or for which a copy		
OR	!		
<ul> <li>B.    — A chain of title from the inventor(s), of the patent application/s shown below:</li> </ul>	patent Identified above, to the current assignee as		
1. From: To :			
The document was recorded in the United States Patent			
Reel, Frame, or for which a copy thereof is	. '		
The document was recorded in the United States Paten Reel, Frame, or for which a copy thereof it			
3. From: To :			
The document was recorded in the United States Palen	t and Trademark Office at		
Reel, Frame, or for which a copy thereof t	s attached. !		
Additional documents in the chain of title are listed on a	supplemental sheet.		
Copies of assignments or other documents in the chain of title in NOTE: A separate copy (i.e., the original assignment document must be submitted to Assignment Division in accordance with 3 recorded in the records of the USPTO. See MPEP 302.8]	it or a true copy of the original document)		
The undersigned (whose title is supplied below) is authorized to ac	at on behalf of the assignee.		
Orely 30, 2004-	Linda S. Stevenson		
Date	Typed or printed name		
(510) 587-6000 Telephone number	Kinda Stevensor  Signature		
төрнын нишы	Manager, Patent Prosecution		
<b>.</b>	Title		

TTC Attorney Docket No. <u>02307Z-132800US</u>

#### **ASSIGNMENT**

O.C. Case No. ZUL	<u>=149-1</u>	
For good and valua	ble consideration, the recei	pt of which is hereby acknowledged, ASSIGNOR(S),
1. <u>Julin Wan</u>		2. Amiya K. Mukherjee
3. Matthew J. Gasc	h	4
Corporation, having 5200, and the succ	) its statewide administrativessors, assigns and legal ( ts territorial possessions a	NEE, The Regents of the University of California, a California ve offices located 1111 Franklin St., 12 <sup>th</sup> Floor, Oakland, CA 94607-representatives of the ASSIGNEE all of its right, title and interest for the nd in all foreign countries in and to, any and all improvements which are
NANOCOMPOSITE	S OF SILICON NITRIDE,	SILICON CARBIDE, AND BORON NITRIDE
and which is found	in ·	•
(a)	U.S. provisional applica	tion filed herewith and listing the above-named persons as inventors
<b>(b)</b>	U.S. patent application	filed herewith and listing the above-named persons as inventors
(c) <u>X</u>	U.S. application serial n	o. <u>10/773,758</u> , filed on <u>February 6, 2004</u>
(d)	U.S. Patent No.:	, issued
conversion to 35 Us and all rights under ASSIGNOR(S) here entered into which was a SSIGNOR(S) furth documents relating ASSIGNOR and will execute and deliver apply for, obtain, may be thereof which may be requested by the exapplication when of	eald Invention by the above SC 111(a) or substitute the all International Convention aby covenants that no assigner covenants that ASSIGN to said invention and said I testify as to the same in a to ASSIGNEE or its legal allutain, issue or enforce said the encessary or desirable to execution of this assignmenticially known.	EE will, upon its request, be provided promptly with all pertinent facts and Letters Patent and legal equivalents as may be known and accessible to any Interference, litigation, or proceeding relating thereto and will promptly representative any and all papers, instruments or affidavits required to deposit and said invention and said Letters Patent and said equivalents of carry out the purposes thereof. An attorney of record is authorized and it to insert into this assignment the filing date and serial number of said
Onked States and a	<u>PR(S)</u> requests the Comming relscue or extension the	ssioner of Patents and Trademarks to issue said Letters Patent of the reof to the ASSIGNEE, The Regents of the University of California.
executed this		Signature of Inventor(s)
15 day of Jul	y , 20 04	Julin Wen
19 day of May	, 2004	Amiya K. Mukherjee
day of	, 20	
	. ——	Matthew J. Gasch
day of	, 20	
rev 10//03 60174866 v1		

TTC Attorney Docket No. 02307Z-132800US

#### **ASSIGNMENT**

U.C. Case 110. 2003	1441	
For good and valuable	e consideration, the recei	ipt of which is hereby acknowledged, ASSIGNOR(S),
1. <u>Julin Wan</u>		2. Amiya K. Mukhertee
3. Matthew J. Gasch		4
Corporation, having i 5200, and the succes	ts statewide administrati ssors, assigns and legal territorial possessions a	NEE, The Regents of the University of California, a California to content of the University of California, a California to content of the ASSIGNEE all of its right, title and interest for the and in all foreign countries in and to, any and all improvements which are
NANOCOMPOSITES	OF SILICON NITRIDE.	SILICON CARBIDE, AND BORON NITRIDE
and which is found in		
(a)	U.S. provisional applica	ation filed herewith and listing the above-named persons as inventors
(p)	U.S. patent application	filed herewith and listing the above-named persons as inventors
(c) <u>X</u>	U.S. application serial	no. <u>10/773,758</u> , filed on <u>February 6, 2004</u>
(d)	U.S. Patent No.:	, işşued
to be obtained for sa conversion to 35 US and all rights under a ASSIGNOR(S) herel entered into which we ASSIGNOR(S) furthe documents relating to ASSIGNOR and will execute and deliver apply for, obtain, mai thereof which may be requested by the exapplication when office AND the ASSIGNOR	ald invention by the above C 111(a) or substitute the II International Conventional Conventional Conventional Conventional Conventional Conventional Conflict with this assignment of the same in the ASSIGNEE or its legitation, issue or enforce an ecessary or desirable ecution of this assignmentally known.	NEE will, upon its request, be provided promptly with all pertinent facts and I Letters Patent and legal equivalents as may be known and accessible to any interference, litigation, or proceeding relating thereto and will promptly all representative any and all papers, instruments or affidavits required to aid application, said invention and said Letters Patent and said equivalents to carry out the purposes thereof. An attorney of record is authorized and ent to insert into this assignment the filing date and serial number of said missioner of Patents and Trademarks to issue said Letters Patent of the
United States and an executed this	ry reissue or extension th 	ereof to the ASSIGNEE, The Regents of the University of California.  Signature of Inventor(s)
day of	. 20	-
-		Julin Wan
19 day of May	20_04	Amiya K. Mukherjee
25 day of May	2004	Matthew J. Gasch
day of	, 20	
rev 10//03		•

# This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS
☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
☐ FADED TEXT OR DRAWING
☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
☐ GRAY SCALE DOCUMENTS
LINES OR MARKS ON ORIGINAL DOCUMENT
☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
□ OTHER:

## IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.